



ISSN 0305-0076

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Review of Applied Entomology Series A : Agricultural

SCIENCE
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MAY 16 1989
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1988 VOLUME 76 ANNUAL INDEXES

Includes List of Source Journals

PUBLISHED BY CAB INTERNATIONAL



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Review of Applied Entomology Series A Agricultural

is a monthly journal prepared by the
CAB INTERNATIONAL BUREAU OF CROP PROTECTION
in association with the CAB International Institute of Entomology

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The main task of the Information Services, located at the CAB International Centre (CABIC) at Wellesbourne, is the creation of a bibliographic database of research on agriculture, forestry and allied disciplines, including social sciences and aspects of human medicine. Abstract journals derived from the database, and online access to it, provide a unique source of information for research scientists, development workers, educators and students. Subsidiary but growing tasks are the publication of primary journals and reference works, and training information professionals in developing countries.

The Accessions Unit acquires the relevant scientific and technical literature for abstracting by almost 100 scientists/linguists in the following 11 Bureaux:

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Pastures & Field Crops

Crop Protection
Horticulture & Plantation Crops
Plant Breeding & Genetics
Soils
Forestry

Further material is acquired and processed by collaborating or contracted organizations. Other staff coordinate work on specialized directories and databanks, and commission new books and primary journals. The Publications Unit is responsible for printing the journals and books, and the Marketing & Sales Division promotes and sells Information Services products and services worldwide.

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CABI's Scientific Services consist of four Institutes and two support services:

International Institute of Entomology (CIE), Director Dr K.M. Harris, located at 56 Queen's Gate, London, and in the British Museum, Natural History.

International Mycological Institute (CMI), Director Professor D.L. Hawksworth, located at Ferry Lane, London, adjacent to the Royal Botanic Gardens.

International Institute of Parasitology (CIP), Director Dr R. Muller, located at Winches Farm, St. Albans, the field station of the London School of Hygiene & Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research, implement projects, and provide training in their fields of expertise.

International Institute of Biological Control (CIBC), Director Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training, and participates in integrated pest management programmes.

Development Services (CDS), Head Mr D. Heydon, integrate the broad range of CABI expertise to provide advice and assistance with agricultural problems, but particularly those related to pest management and information services.

Library Services, Manager Mr C.J. Hamilton, have their headquarters with CIBC at Silwood Park, where the Library is held, with additional literature collections at CMI, CIP, CDS and CABIC. Library Services operate a Document Delivery Service.

Systems

The Systems Division provides computing resources and services to all parts of CABI. It maintains a central computing facility with telecommunications access to seven remote sites, including the four CABI Institutes. CABIC is served by a modern Local Area Network which provides access to the computers, and by networked office automation facilities. The main computers are DEC VAX systems and the principal software systems are BASIS for data management and PAGER for typesetting and information retrieval.

The staff of 20 includes database production personnel, systems analysts, programmers and computer operators. The principal systems are for the production of the CABI bibliographic database and associated functions, plus accessions control, subscription management and electronic publishing.

C·A·B INTERNATIONAL INFORMATION SERVICES PRODUCTS AND SERVICES

Almost 100 scientists/linguists in the 11 Bureaux of CABI's Information Services at Wallingford, UK, with help from associated organizations and individuals worldwide, abstract and index the significant research and development literature in agriculture, forestry and allied disciplines. Over 10000 serials and many other publications are scanned, and approximately 130000 bibliographic records are compiled each year. From this computerized database is derived a wide range of information services and products in hard copy and machine-readable form, designed to meet a variety of customer needs.

HARD COPY PRODUCTS

Abstract journals

The following abstract journals on specific disciplines, specialist crops or products, or particular livestock are published, mostly monthly or quarterly. Each has author and subject indexes, cumulated annually in a special issue of the journal.

Animal Science and Production

Animal Breeding Abstracts; Dairy Science Abstracts; Nutrition Abstracts & Reviews, Series B—Livestock Feeds & Feeding; Pig News & Information; Poultry Abstracts.

Veterinary Science and Parasitic Diseases

Animal Disease Occurrence; Helminthological Abstracts, Series A—Animal & Human Helminthology; Index Veterinarius; Protozoological Abstracts; Review of Applied Entomology, Series B—Medical & Veterinary; Review of Medical & Veterinary Mycology; Small Animal Abstracts; Veterinary Bulletin.

Crop Science and Production

Cotton & Tropical Fibres Abstracts; Crop Physiology Abstracts; Faba Bean Abstracts; Field Crop Abstracts; Herbage Abstracts; Horticultural Abstracts; Irrigation & Drainage Abstracts; Lentil Abstracts; Maize Abstracts; Ornamental Horticulture; Plant Breeding Abstracts; Plant Growth Regulator Abstracts; Potato Abstracts; Rice Abstracts; Seed Abstracts; Soils & Fertilizers; Sorghum & Millets Abstracts; Soyabean Abstracts; Tropical Oil Seeds Abstracts; Wheat, Barley & Triticale Abstracts.

Forestry

Agroforestry Abstracts; Forest Products Abstracts; Forestry Abstracts.

Crop Protection

Biocontrol News & Information; Helminthological Abstracts, Series B—Plant Nematology; Review of Applied Entomology, Series A—Agricultural; Review of Plant Pathology; Weed Abstracts.

Economics, Development and Sociology

Leisure, Recreation & Tourism Abstracts; Rural Development Abstracts; Rural Extension, Education & Training Abstracts; World Agricultural Economics & Rural Sociology Abstracts; Machinery and Buildings; Agricultural Engineering Abstracts.

Human Nutrition

Nutrition Abstracts & Review, Series A—Human Nutrition Experimental.

Biotechnology/Biodeterioration

AgBiotech News & Information; Biodeterioration Abstracts.

Also published is a new series of current awareness publications (CAB Prompts) on specific crops. Subject indexes are not provided. Titles in the series so far are: *Groundnuts* and *Chickpeas/Pigeonpeas*.

Many retrospective compilations of abstracts (Annotated Bibliographies) on various topics are available on demand.

SDI Service

SDI (Selective Dissemination of Information) is a regular current awareness service based on the most recent input to the database. Subscribers decide their own search profile and receive search results at intervals of their own choice, either as computer printout or on floppy discs suitable for most microcomputers. Airmail ensures fast delivery.

CAB Alerts

This is a special SDI service providing subscribers each month with the search results from standard profiles chosen by CABI. Numerous titles are available and the list is regularly updated to reflect new subject interests. Output is available on computer printout posted by airmail.

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Online Access

The machine-readable database, known as CAB ABSTRACTS, is publicly accessible online through DIALOG Information Services (USA), BRS Information Technologies (USA), ESA-IRS (Italy), DIM (GFR), JICST (Japan), CAN-OLE (Canada) and Tsukuba Daigaku (Japan). The whole database back to 1973 contains over 2 million records. Search aids include the CAB ABSTRACTS Online Manual, the CABI Thesaurus (1988 Edition) and the CAB International Serials Checklist (1988).

Magnetic tapes

Organizations with access to mini or mainframe computers may lease all or part of CAB ABSTRACTS on magnetic tape. Update tapes are issued monthly, and retrospective tapes as required.

OTHER PRODUCTS AND SERVICES

Document Delivery Service

Photocopies of originals of most articles included in the database are available from CABI Library Service, Silwood Park, Ascot, UK. Documents may also be ordered online via DIALOG's DIALORDER or ESA/IRS's PRIMORDIAL.

Books and serial publications

CABI publishes authoritative reference books, directories and serial publications, the latter including *Bulletin of Entomological Research*, *Index of Current Research on Pigs*, *Distribution Maps of Pests*, *Distribution Maps of Plant Diseases*, *Bibliography of Systematic Mycology*, *Descriptions of Pathogenic Fungi & Bacteria*, *Index of Fungi*, and *Systema Ascomycetum*. CABI is a co-sponsor of the International Food Information Service which publishes *Food Science & Technology Abstracts*.

REVIEW OF APPLIED ENTOMOLOGY SERIES A, AGRICULTURAL

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CAB INTERNATIONAL BUREAU OF CROP PROTECTION

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Helminthological Abstracts, Series B, Plant Nematology

Weed Abstracts

Plant Growth Regulator Abstracts

Languages

An initial capital denotes the language of the paper; an initial small letter the language of the summary.

Al	Afrikaans	Fi	Finnish	Sl	Slovene
Al	Albanian	Fr	French	So	Swedish
Ar	Arabic	Gr	Greek	Po	Polish
Az	Azerbaijani	He	Hebrew	Pl	Polish
Be	Belarusian	Hu	Hungarian	Pr	Portuguese
	(White Russian)	It	Italian	Ro	Romanian
Bg	Bulgarian	Ja	Japanese	Ru	Russian
Ch	Chinese	Is	Icelandic	Sa	Sanskrit
Cs	Czech	It	Italian		(after script)
Da	Danish	Ja	Japanese	Sr	Serbian
De	German	Ko	Korean	Sv	Swedish
El	Estonian	La	Latin	Ta	Tamil
En	English	Li	Lithuanian	Tu	Turkish
Es	Spanish	Lv	Latvian	Uk	Ukrainian
Et	Estonian	Ma	Malay		

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NOTES FOR READERS

Names or phrases in square brackets in a title or abstract have been added during abstracting and do not appear in the original.

The scientific names of arthropods are checked against those in an index that is constantly revised with the assistance of taxonomists; those of other organisms are checked with standard reference sources. Where a scientific name only is cited in an abstract, the name used by the author is given first, followed in square brackets by the name considered to be the valid one, where these differ. Thereafter, the valid name only is used. Where a common name is cited in an abstract, it may be followed in round brackets by the scientific name provided by the author, corrected in square brackets if necessary, or by the scientific name in square brackets if none was provided by the author. It should be noted that prior to 1985 square brackets were not used in this way and the scientific name held to be valid was cited first, followed in round brackets by that used by the author where these differed.

Names of pesticides, including acaricides and insecticides, follow ISO 1750 *Pesticides and other agrochemicals — common names* and ISO 765 *Pesticides considered not to require common names*. For pesticides not included in either of these standards, common names approved by the World Health Organization, the British Standards Institution, the American National Standards Institute, the Weed Science Society of America or the British Pharmacopoeia Commission are used.

The abstracts are arranged according to subject content. Whenever possible, papers will appear under the host plant (often a crop) in the section 'Economically significant plants in relation to arthropods'. When no host plant is mentioned, the paper will appear under one of the other section headings. Cross references are given where appropriate at the beginning of a section.

Abbreviations

a.i.	active ingredient	LD	lethal dose
alt.	altitude	LD 10:14	10h light and 14h dark
d.b.h.	diameter at breast height	LT	lethal time
e.c.	emulsifiable concentrate	PAGE	polyacrylamide gel electrophoresis
ED	effective dose	PIB	polyhedral inclusion body
ELISA	enzyme-linked immunosorbent assay	RH	relative humidity
EM	electron microscope	SEM	scanning electron microscope
gen. nov.	genus novum (new genus)	sp. nov.	species nova (new species)
ID	infective dose	subsp. nov.	subspecies nova (new subspecies)
IU	international unit	TEM	transmission electron microscope
KT	knockdown time	ULV	ultra-low volume
LC	lethal concentration	w.p.	wettable powder

Languages

An initial capital denotes the language of the paper, an initial small letter the language of the summary.

Af	Afrikaans	Fi	Finnish	Nl	Dutch
Al	Albanian	Fr	French	No	Norwegian
Ar	Arabic	Gr	Greek	Pe	Persian
Az	Azerbaijani	He	Hebrew	Pl	Polish
Be	Byelorussian (White Russian)	Hu	Hungarian	Pt	Portuguese
Bg	Bulgarian	Ia	Interlingua	Ro	Romanian
Ch	Chinese	In	Indonesian	Ru	Russian
Cs	Czech	Is	Icelandic	Sh	Serbo-Croat (either script)
Da	Danish	It	Italian	Sk	Slovak
De	German	Ja	Japanese	Sn	Slovene
Ee	Estonian	Ko	Korean	Sv	Swedish
En	English	La	Latin	Ta	Tajik
Eo	Esperanto	Li	Lithuanian	Tr	Turkish
Es	Spanish	Lv	Latvian	Uk	Ukrainian
		Ma	Macedonian		

SUBJECT INDEX

The subject indexes of the *Review of Applied Entomology* not only provide for detailed manual searches under a wide variety of headings, but also provide a wide variety of standardized terms for use in computer-assisted searches of the CABI database. The most detailed entries are those under the names of arthropods, but other organisms, countries, chemicals, habitats and general subjects (e.g. Biological control, Books, Conferences, Sterile insect release, Traps) are also used as headings. Strict vocabulary control is achieved by careful checking of systematic names of organisms and chemicals, by adhering to CABI standards for pest-control chemicals and pharmaceuticals, and by selecting most other headings to conform with the *CAB Thesaurus* or with *Chemical Abstracts* or *Index Medicus*. All references are to abstract numbers.

Under the names of arthropods there are references to their taxonomy, physiology, ecology, biology, distribution, food plants, hosts, natural enemies, vector ability, control and miscellaneous subjects. Entries for species will be found under the generic name. The names used for arthropods in this index are those used in the abstracts, because these names have all been checked against indexes maintained by the Institute. These indexes are continuously updated to take account of taxonomic revisions, and in cases of difficulty the taxonomists employed by the Institute or by the British Museum (Natural History) are consulted. If two or more names are accepted by the *Review* for a taxon during one year, each name is entered separately, with either a 'see also' cross-reference to the other name or an appropriate index entry at the subheading 'taxonomy'. Cross-references from names used by authors but not accepted by the *Review* are given to the currently-accepted names.

Plants are indexed under English common names of the more important or familiar crops, or under scientific names down to species or subspecies level. At both these types of heading there are references to the arthropods that affect the plant concerned, to arthropod-transmitted pathogens and to the side-effects of pesticides. Cross-references are provided between common names and scientific names. Common names are now used in the plural, so to distinguish commodities they are indexed at terms such as 'Cereal grains' and 'Potatoes (commodity)'.

Vertebrates are indexed to species or subspecies level, under English common names for the most important domesticated birds and mammals, or under scientific names. At both these types of heading will be found references to the arthropods that affect the animal concerned, and to the side-effects of pesticides.

Viruses pathogenic for arthropods are indexed as 'pathogens' under the name of the host, and the hosts are listed at headings such as 'Granulosis viruses'. Other pathogens of arthropods are indexed at the scientific name of the pathogen. Plant viruses and mycoplasma-like organisms are indexed at common names, while other pathogens of plants are indexed at the scientific name of the pathogen, if one is available.

Geographical locations used as headings are faunal regions, continents, archipelagoes, islands and countries (including States, Provinces or Territories for Australia, Canada and the USA). Entries refer mainly to pest arthropods, with some references to pest control and beneficial species.

Chemicals are normally indexed under either a common name or a systematic name, but a few unidentified or complex substances are indexed under names used by authors. The majority of the names used for chemicals for the control of arthropods follow ISO 1750 *Pesticides and other agrochemicals - common names* and ISO 765 *Pesticides considered not to require common names*, are listed on pp. 1-6 of RAE volume 70. Other common names adopted by BSI, ISO or ANSI are also used. Common names of herbicides and plant growth regulators listed in recent issues of *Weed Abstracts* are used, and so are the ISO common names of other pesticides (including fungicides and nematocides) and International Nonproprietary Names approved by the World Health Organization. Cross-references are provided to the common name, and definitions are printed at the common-name headings.

Habitat headings are chosen, whenever possible, beginning with the name of a plant (e.g. Apple orchards, Pine forests, Rice fields). In other cases, main types of habitat (e.g. Pastures, Forests) are used as headings. Entries here are mostly concerned with the distribution of beneficial arthropods and the nontarget effects of pest control.

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- Appiah, M. R. 1984
- Applebaum, S. 7827
- Applebaum, S. W. 5709
- Aquino, M. Lourdes de 2480
- Arab and Near East Plant Protection Newsletter 1635-1637
- Arabale, V. D. 7387
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- ASEAN Plant Quarantine Centre and Training Institute 3306, 3596
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 Plant Protection Bulletin, Taiwan 5604
 Plant Quarantine Leaflet, Australia 2675
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Any other serials were scanned during 1988 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition*. The publication includes ISSN and publishers' addresses. See a separate page of this Index for details.

- Abstracts on Cassava
- Abstracts on Field Beans
- Aerologia
- AIAR Proceedings Series, Australian Centre for International Agricultural Research
- ACS Symposium Series, American Chemical Society
- Acta Agraria et Silvestria, Agraria
- Acta Agriculturae Shanghai
- Acta Agriculturae Universitatis Pekinensis
- Acta Agronómica, Universidad Nacional de Colombia
- Acta Biochimica et Biophysica Sinica
- Acta Botanica Sinica
- Acta Botanica Yunnanica
- Acta Chemica Scandinavica, B (Organic Chemistry and Biochemistry)
- Acta Dendrobiologica
- Acta Entomologica Bohemoslovaca
- Acta Entomologica Fennica
- Acta Entomologica Jugoslavica
- Acta Entomologica Lituanica
- Acta Entomologica Sinica
- Acta Horticulturae
- Acta Hydrochimica et Hydrobiologica
- Acta Microbiologica Sinica
- Acta Oecologica, Oecologia Applicata
- Acta Oecologica, Oecologia Generalis
- Acta Phytopathologica Academiae Scientiarum Hungaricae
- Acta Phytopathologica et Entomologica Hungarica
- Acta Phytopathologica Sinica
- Acta Phytophylactica Sinica
- Acta Protozoologica
- Acta Průhonická
- Acta Scientiarum Naturalium Universitatis Sunyatseni
- Acta Societatis Botanicorum Poloniae
- Acta Universitatis Agriculturae Brno, C (Facultas Silviculturae)
- Acta Zoologica Bulgarica
- Acta Zoologica Mexicana
- Acta Zoologica Sinica
- Actes de l'Institut Agronomique et Vétérinaire Hassan II
- Actividades en Turrialba
- Advances in Ecological Research
- Advances in Insect Physiology
- Advances in the Study of Behaviour
- African Journal of Agricultural Sciences
- African Journal of Ecology
- Agfacts
- Agricultura Revista Agropecuaria
- Agricultura Técnica
- Agricultura Técnica en México
- Agricultura Tropica et Subtropica
- Agricultural and Biological Chemistry
- Agricultural and Forest Meteorology
- Agricultural History
- Agricultural Record, Australia
- Agricultural Research Journal of Kerala
- Agricultural Research Review
- Agricultural Research, USA
- Agricultural Reviews
- Agricultural Science Digest, India
- Agricultural Systems
- Agricultural University Wageningen Papers
- Agricultural Zoology Reviews
- Agriculture and Forestry Bulletin, University of Alberta
- Agriculture Handbook, US Department of Agriculture
- Agriculture International
- Agriculture, Canada
- Agriculture, Ecosystems and Environment
- Agrovita
- Agrochimica
- Agrokimiya
- Agronomia Costarricense
- Agronomía Tropical
- Agronomic
- Agronomie Tropicale
- Agronomy Journal
- Agrotecnia de Cuba
- Alexandria Journal of Agricultural Research
- Allergy
- Allgemeine Forst- und Jagdzeitung
- Alon Hanotea
- American Journal of Alternative Agriculture
- American Journal of Botany
- American Journal of Enology and Viticulture
- American Midland Naturalist
- American Naturalist
- American Potato Journal
- American Zoologist
- Anais da Escola de Agronomia e Veterinária, Universidade Federal de Goiás
- Anais da Escola Superior de Agricultura 'Luiz de Queiroz', Universidade de São Paulo
- Anais da Sociedade Entomológica do Brasil
- Analele Institutului de Cercetări pentru Cereale și Plante Tehnice Fundulea
- Analele Institutului de Cercetări pentru Protecția Plantelor
- Anales de Biología, Biología Ambiental
- Anales de Biología, Biología Animal
- Anales de Biología, Biología General
- Anales de Edafología y Agrobiología
- Analyst
- Analytica Chimica Acta
- Animal Behaviour
- Animal Technology
- Annalen des Naturhistorischen Museums in Wien, B
- Annales Agriculturae Fenniae
- Annales de l'Institut de la Recherche Agronomique de Tunisie
- Annales de l'Institut National Agronomique El-Harrach, Algeria
- Annales de l'Institut Phytopathologique Benaki
- Annales de la Société Entomologique de France
- Annales des Sciences Forestières
- Annales du Tabac, 2
- Annales Entomologici Fennici
- Annales Historico-Naturales Musei Nationalis Hungarici
- Annales Universitatis Mariae Curie-Skłodowska, DD (Medicina Veterinaria)
- Annali della Facoltà di Agraria, Università degli Studi di Perugia
- Annali di Microbiologia ed Enzimologia
- Annals of Agricultural Research
- Annals of Agricultural Science, Ain Shams University
- Annals of Agricultural Science, Moshtohor
- Annals of Applied Biology
- Annals of Biology
- Annals of Entomology
- Annals of Plant Physiology
- Annals of the Entomological Society of America
- Annals of the Missouri Botanical Garden
- Annals of Tropical Research
- Annual Report of the Hokkaido Branch, Forestry and Forest Products Research Institute, Japan
- Annual Report, Institute for Commercial Forestry Research, University of Natal
- Annual Review of Ecology and Systematics
- Antenna
- Anzeiger für Schädlingskunde, Pflanzenschutz, Umweltschutz
- APHIS, Animal and Plant Health Inspection Service, US Department of Agriculture
- Apicoltura Moderna
- Apicoltura in Sardegna
- Applied and Environmental Microbiology
- Applied Entomology and Zoology
- Aquaculture
- Aquatic Toxicology
- Arab and Near East Plant Protection Newsletter
- Arab Gulf Journal of Scientific Research, B (Agricultural and Biological Sciences)
- Arab Journal of Plant Protection

- Arboricultural Journal
 Arboriculture Fruitière
 Archiv für Acker- und Pflanzenbau und Bodenkunde
 Archiv für Phytopathologie und Pflanzenschutz
 Archiv für Protistenkunde
 Archives de l'Institut Pasteur de Tunis
 Archives of Environmental Contamination and Toxicology
 Archives of Insect Biochemistry and Physiology
 Arkansas Farm Research
 Arquipélago
 Arquivos do Instituto Biológico, São Paulo
 Arroz en las Américas
 Aspects of Applied Biology
 Atomisation and Spray Technology
 Atti Giornate Fitopatologiche
 Australasian Plant Pathology
 Australian Forestry
 Australian Institute of Agricultural Science Occasional Publication
 Australian Journal of Agricultural Research
 Australian Journal of Botany
 Australian Journal of Ecology
 Australian Journal of Experimental Agriculture
 Australian Journal of Zoology
 Australian Veterinary Journal
 Avocetta
 AVRDC Publication, Asian Vegetable Research and Development Center
 Bangladesh Journal of Agriculture
 Bangladesh Journal of Zoology
 Bee World
 Behavior Genetics
 Behavioral Ecology and Sociobiology
 Behaviour
 Beiträge für die Forstwirtschaft
 Beiträge zur Entomologie
 Beiträge zur Tropischen Landwirtschaft und Veterinärmedizin
 Belle Glade EREC Research Report
 Bhartiya Krishi Anusandhan Patrika
 Bibliographie der Pflanzenschutzliteratur
 Bibliographies and Literature of Agriculture, US Department of Agriculture
 Bio-Control News
 Bio/Technology
 Biochemical Journal
 Biochemical Society Transactions
 Biochemical Systematics and Ecology
 Biochemistry Journal
 Biochimica et Biophysica Acta, G (General Subjects)
 Biochimica et Biophysica Acta, M (Biomembranes)
 Biochimica et Biophysica Acta, P (Protein Structures and Molecular Enzymology)
 Biocontrol News and Information
 Biological Agriculture and Horticulture
 Biological Bulletin
 Biological Conservation
 Biological Journal of the Linnean Society
 Biologicheskii Zhurnal Armenii
 Biologické Práce
 Biológico
 Biology Bulletin of the Academy of Sciences of the USSR
 Biology of Behaviour
 BioScience
 Bioscience Reports
 Biotechnology
 Biotechnologiya
 Biotrop Special Publication
 Biotropica
 Biovigyanam
 Bitki Koruma Bülteni
 Biuletyn Warzywnicz
 Bloembollencultuur
 Boletim da Sociedade Portuguesa de Entomologia
 Boletim Técnico, Centro de Pesquisas do Cacau, Brazil
 Boletim Tecnico, Empresa de Pesquisa Agropecuária de Minas Gerais
 Boletín de Sanidad Vegetal, Plagas
 Bollettino del Laboratorio di Entomologia Agraria "Filippo Silvestri"
 Bollettino dell'Istituto di Entomologia "Guido Grandi" della Università degli Studi di Bologna
 Bollettino della Società Entomologica Italiana
 Bollettino di Zoologia Agraria e di Bachioltura, II
 Botanicheskii Zhurnal
 BPP (Buletinul de Protecția Plantelor)
 Bragantia
 Brimleyana
 British Reports, Translations and Theses
 British Sugar Beet Review
 BSES Bulletin, Bureau of Sugar Experiment Station
 Buletinul Institutului Agronomic Cluj-Napoca, Agricultura
 Bulletin de l'Institut Fondamental d'Afrique Noire, A (Sciences Naturelles)
 Bulletin de la Société Entomologique d'Égypte
 Bulletin de la Société Entomologique de France
 Bulletin de la Société Zoologique de France
 Bulletin et Annales de la Société Royale Belge d'Entomologie
 Bulletin Mensuel de la Société Linnéenne de Lyon
 Bulletin OEPP
 Bulletin of Entomological Research
 Bulletin of Entomology
 Bulletin of Environmental Contamination and Toxicology
 Bulletin of Mathematical Biology
 Bulletin of the British Museum (Natural History), Entomology
 Bulletin of the College of Agriculture, Utsunomiya University
 Bulletin of the Entomological Society of America
 Bulletin of the Entomological Society of Canada
 Bulletin of the Entomological Society of Egypt, Economic Series
 Bulletin of the Faculty of Agriculture, Shimane University
 Bulletin of the Faculty of Agriculture, Shizuoka University
 Bulletin of the Faculty of Agriculture, Yamaguchi University
 Bulletin of the Forest Tree Breeding Institute, Japan
 Bulletin of the Institute of Zoology, Academia Sinica
 Bulletin of the Niigata University Forests
 Bulletin of the Polish Academy of Sciences, Biology
 Bulletin of the Tobacco Research Institute, Taiwan Tobacco & Wine Monopoly Bureau
 Bulletin of the Tohoku National Agricultural Experiment Station, Japan (Tohoku Nogyo Shikenjo Kenkyu Hokoku)
 Bulletin of the Tokyo University Forests
 Bulletin of Zoological Nomenclature
 Bulletin SROP
 Bulletin, Arkansas Agricultural Experiment Station, Arkansas University
 Bulletin, Connecticut Agricultural Experiment Station
 Bulletin, Department of Scientific and Industrial Research, New Zealand
 Bulletin, Louisiana Agricultural Experiment Station
 Byulleten' Glavnogo Botanicheskogo Sada
 Byulleten' Moskovskogo Obshchestva Ispytatelei Prirody, Biologicheskii
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 Byulleten' Vsesoyuznogo Nauchno-Issledovatel'skogo Instituta Zashchity Rastenii
 Café, Cacao, Thé
 Cahiers des Naturalistes
 Cahiers ORSTOM, Pédologie
 California Agriculture
 Canadian Agricultural Insect Pest Review
 Canadian Entomologist
 Canadian Field Naturalist
 Canadian Journal of Botany
 Canadian Journal of Chemistry
 Canadian Journal of Forest Research
 Canadian Journal of Genetics and Cytology
 Canadian Journal of Plant Pathology
 Canadian Journal of Plant Science
 Canadian Journal of Remote Sensing
 Canadian Journal of Zoology
 Canadian Plant Disease Survey
 Canadian Veterinary Journal
 Capsicum Newsletter
 Caribbean Plant Protection Newsletter
 Caryologia
 Cassava Newsletter
 Cecidologia Internationale
 Cell
 Cell and Tissue Research
 Centerpoint, Taiwan
 Central African Journal of Medicine
 Centralblatt für das Gesamte Forstwesen
 Centro Agricola
 Cercetări Agronomice în Moldova
 Cereal Chemistry
 Cereal Research Communications
 Chemical & Pharmaceutical Bulletin
 Chemical Senses
 Chemistry and Industry
 Chemosphere
 China Cottons
 China's Fibre Crops
 Chinese Journal of Biological Control
 Chinese Journal of Entomology
 Chinese Journal of Virology
 Chmelarstvi
 Chromosoma
 Cicindela
 Ciência Biológica, Ecology and Systematics
 Ciencia y Técnica en la Agricultura, Café y Cacao
 Ciencias de la Agricultura
 Cimbebasia, A
 CIP Circular, International Potato Center
 Circular Técnica, Centro de Pesquisa Agropecuária do Trópico Semi-Arido, EMBRAPA, Brazil

- ircular Técnica, Centro Nacional de Pesquisa de Uva e Vinho, EMBRAPA, Brazil
- ircular, Alabama Agricultural Experiment Station, Auburn University
- itograph
- itrus and Subtropical Fruit Journal
- lay Research
- lays and Clay Minerals
- MU Journal of Agriculture, Food and Nutrition
- ocoa Growers' Bulletin
- OCOS
- oleopterists' Bulletin
- olture Protette
- omments on Agriculture and Food Chemistry
- ommonwealth Forestry Review
- omunicaciones Instituti Forestalis Fenniae
- omparative Biochemistry and Physiology, A (Comparative Physiology)
- omparative Biochemistry and Physiology, B (Comparative Biochemistry)
- omparative Biochemistry and Physiology, C (Comparative Pharmacology and Toxicology)
- omparative Physiology and Ecology
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- omptes Rendus de l'Académie des Sciences, III (Sciences de la Vie)
- omptes Rendus de l'Académie des Sciences, Série Générale, la Vie des Sciences
- omptes Rendus des Séances de la Société de Biologie et de ses Filiales, France
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- omunicado Técnico, Empresa de Pesquisa Agropecuária do Estado do Rio de Janeiro, EMBRAPA, Brasil
- onference, Food and Agriculture Organization of the United Nations, Rome
- ontributions from Shanghai Institute of Entomology
- ontributions, Central Research Institute for Food Crops, Bogor
- oton et Fibres Tropicales
- RC Critical Reviews in Plant Sciences
- rop Improvement
- rop Protection
- rop Research
- rop Science
- ruciferae Newsletter
- uaderno de Actualización Técnica CREA, Consorcios Regionales de Experimentación Agrícola, Argentina
- urrent Microbiology
- urrent Research on Medicinal and Aromatic Plants
- urrent Research Reporter, Mahatma Phule Agricultural University
- urrent Research, University of Agricultural Sciences, Bangalore
- urrent Science, India
- ytobios
- ytologia
- ansk Skovforenings Tidsskrift
- ate Palm Journal
- deutsche Baumschule
- Deutsche Lebensmittel-Rundschau
- Developmental Biology
- Difesa delle Pianta
- Dirasat
- Dissertation Abstracts International, B (Sciences and Engineering)
- DLG-Mitteilungen
- Documentos de Ciencia y Técnica, Instituto Superior de Ciencias Agropecuarias de la Habana, Ciencias Agropecuarias
- Doga Bilim Dergisi
- Doğa, Türk Tarım ve Ormanlık Dergisi
- Doklady Biological Sciences
- Doklady Vsesoyuznoi Ordena Lenina i Ordena Trudovogo Krasnogo Znameni Akademii Sel'skokhozyaistvennykh Nauk Imeni V. I. Lenina
- Doriana
- Down to Earth
- East African Agricultural and Forestry Journal
- Ecological Entomology
- Ecological Modelling
- Ecological Research
- Ecological Studies
- Ecology, USA
- Ecotoxicology and Environmental Safety
- EIFAC Technical Paper, FAO
- Ekologia Polska
- Ekologia, CSSR
- Ekologiya, USSR
- EMBO Journal
- Endeavour
- Entomography
- Entomologia Experimentalis et Applicata
- Entomologia Hellenica
- Entomologica
- Entomologica Scandinavica
- Entomological News
- Entomological Review of Japan
- Entomologicheskoe Obozrenie
- Entomologische Berichten
- Entomologisk Tidskrift
- Entomologiske Meddelelser
- Entomologist's Monthly Magazine
- Entomologiste
- Entomology Circular, Division of Plant Industry, Florida Department of Agriculture and Consumer Services
- Entomology Memoir, Department of Agriculture and Water Supply, Republic of South Africa
- Entomology Newsletter
- Entomon
- Entomophaga
- Entomotaxonomia
- Entopath News
- Environment and Ecology
- Environment International
- Environmental and Experimental Botany
- Environmental Entomology
- Environmental Health Criteria
- Environmental Monitoring and Assessment
- Environmental Pollution
- Environmental Research
- Environmental Science and Technology
- Environmental Toxicology and Chemistry
- Environnement Africain, Etudes et Recherches
- Enzyme and Microbial Technology
- Eos
- EPPO Publications, C
- Erdészeti és Faipari Tudományos Közlemények
- Erdő
- Erwerbsobstbau
- Ethology
- Euphytica
- European Journal of Biochemistry
- European Journal of Forest Pathology
- European Journal of Respiratory Diseases
- Evolution
- Experientia
- Experimental Agriculture
- Experimental and Applied Acarology
- Experimental Biology
- Experimental Mycology
- Extension Bulletin, ASPAC Food and Fertilizer Technology Center for the Asian and Pacific Region, Taiwan
- Extension Bulletin, Cooperative Extension, College of Agriculture, Washington State University
- FABIS Newsletter, Faba Bean Information Service, ICARDA
- FAO Plant Production and Protection Paper
- FAO Plant Protection Bulletin
- Far Eastern Agriculture
- Farmers' Newsletter, Large Area
- Fascículos Bibliográficos del CIAT
- Fauna Norvegica, B
- Fauna of New Zealand
- FEBS Letters
- FEMS Microbiology Letters
- Field Crops Research
- Field Studies
- Fitopatologia
- Fitopatologia Brasileira
- Fitoterapia
- Florida Entomologist
- Folia Entomologica Hungarica
- Folia Entomologica Mexicana
- Folia Forestalia, Institutum Forestale Fenniae
- Foliage Digest
- FONATAP Divulga
- Food Technology
- Forest and Timber Insects in New Zealand
- Forest Ecology and Management
- Forest Insect and Disease Leaflet, USDA Forest Service
- Forest Products Journal
- Forest Science
- Forestry
- Forestry Abstracts
- Forestry Chronicle
- Forestry Commission Bulletin, UK
- Forestry Commission Handbook, UK
- Forestry Research West
- Forst- und Holzwirt
- Forstlige Forsøgsvæsen i Danmark
- Forum Pascasarjana
- Fragmenta Entomologica
- Fresenius' Zeitschrift für Analytische Chemie
- Frugtavleren
- Fruits
- Fruitteelt
- Frustula Entomologica

- Fujian Agricultural Science and Technology
 Functional Ecology
 Garden, UK
 Gardens' Bulletin
 Gartner Tidende
 Gb + GW
 Gemüse
 Gene
 Genetica
 Genetical Research
 Genetics
 Genetika i Selektsiya
 Genetika, USSR
 Genome
 Geörgikē Ereuna
 Gesunde Pflanzen
 Gewasbescherming
 Giornale Italiano di Entomologia
 Goodfruit Grower
 Gorsko Stopanstvo Gorska Promishlenost
 Gorskostopanska Nauka
 Grøn Viden, Havebrug
 Grøn Viden, Landbrug
 Grass and Forage Science
 Great Basin Naturalist
 Great Lakes Entomologist
 Groenten en Fruit
 Guangdong Agricultural Science
 Gujarat Agricultural University Research Journal
 Gunma Journal of Agricultural Research, A (General)
 Handbooks for the Identification of British Insects
 Harvest
 Haryana Agricultural University Journal of Research
 Haryana Journal of Horticultural Sciences
 Hassadeh
 Hautarzt
 Hawaii Pest Report
 Helminthologia
 Heredity
 Highlights of Agricultural Research, Alabama Agricultural Experiment Station
 Hilgardia
 Hodowla Roślin, Aklimatyzacja i Nasiennictwo
 Holz-Zentralblatt
 Holztechnologie
 Horticultura Brasileira
 Horticultural Reviews
 Horticulture Française
 HortScience
 Human Toxicology
 ICARDA Technical Manual, International Center for Agricultural Research in the Dry Areas, Syria
 ICRISAT Information Bulletin, International Crops Research Institute for the Semi-Arid Tropics
 IDIA
 Illinois Natural History Survey Special Publication
 IMA Journal of Mathematics Applied in Medicine & Biology
 In Vitro Cellular & Developmental Biology
 In Vitro, USA
 Index to Theses Accepted for Higher Degrees in the Universities of Great Britain and Ireland
 Indian Agriculturist
 Indian Cocoa, Arcanut & Spices Journal
 Indian Farming
 Indian Forester
 Indian Journal of Agricultural Research
 Indian Journal of Agricultural Sciences
 Indian Journal of Botany
 Indian Journal of Ecology
 Indian Journal of Experimental Biology
 Indian Journal of Forestry
 Indian Journal of Horticulture
 Indian Journal of Mycology and Plant Pathology
 Indian Journal of Nematology
 Indian Journal of Plant Pathology
 Indian Journal of Plant Protection
 Indian Journal of Sericulture
 Indian Journal of Virology
 Indian Perfumer
 Indian Phytopathology
 Indian Review of Life Sciences
 Indian Sugar Crops Journal
 Information Bulletin, Citrus and Subtropical Fruit Research Institute, South Africa
 Informatore Agrario
 Informatore Fitopatologico
 Informe Agropecuario
 Informe Técnico, Estación Experimental Regional Agropecuaria Pergamino, Argentina
 Infos, Centre Technique Interprofessionnel des Fruits et Légumes, France
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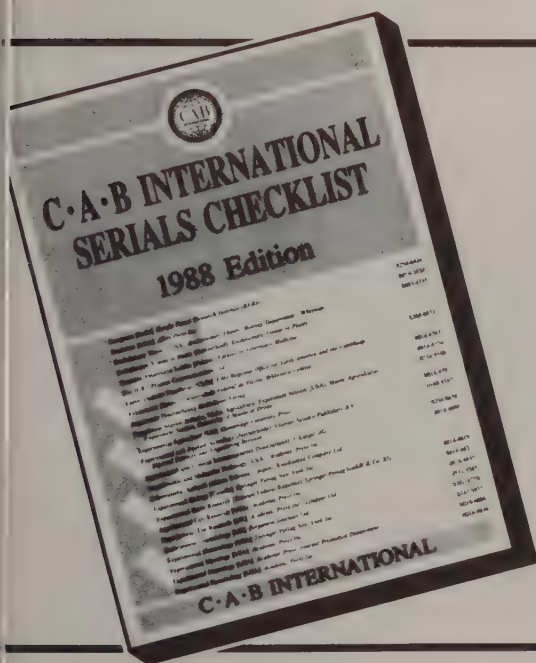
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Volume 1, No. 1, 1911

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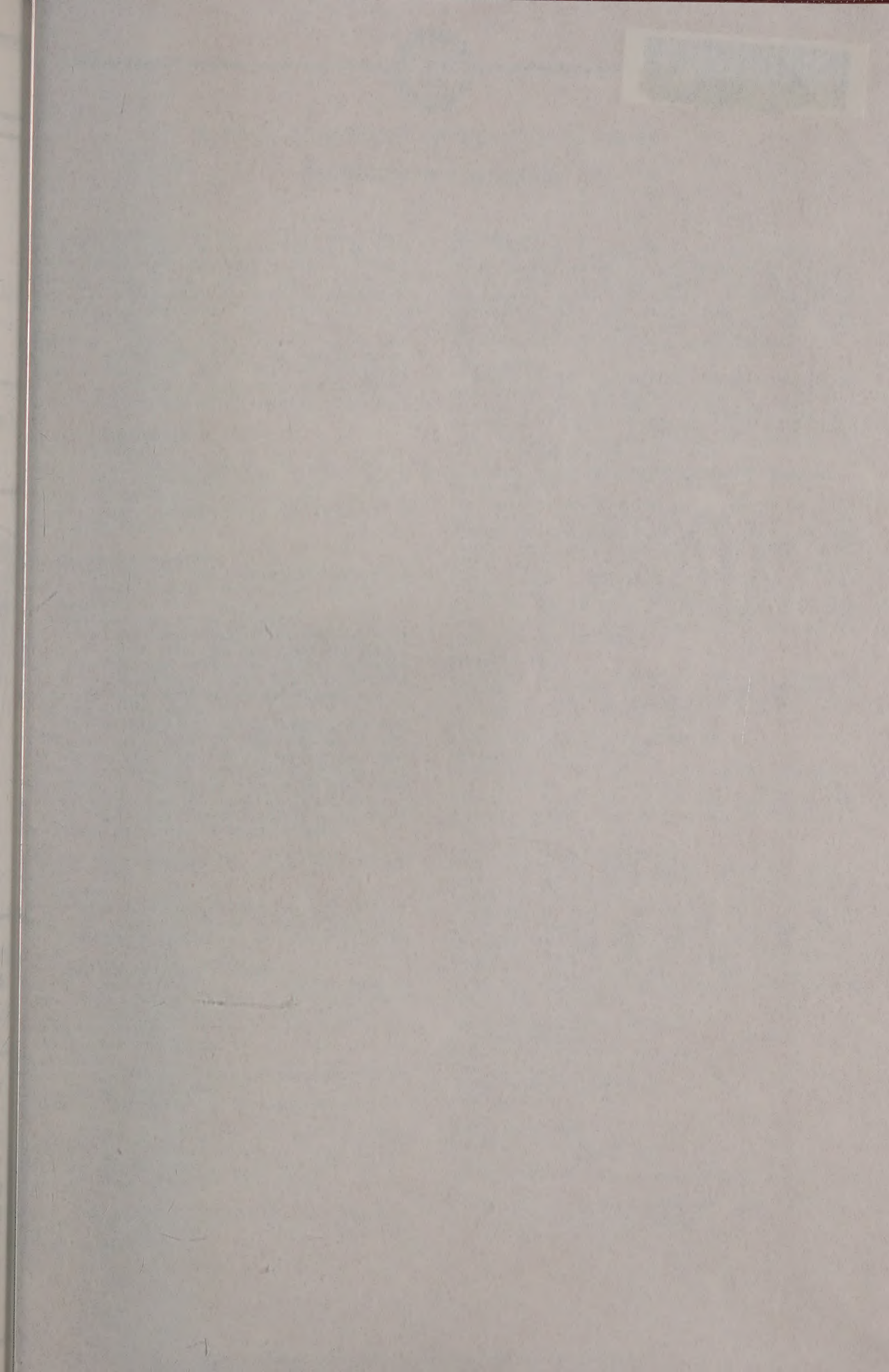
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Animal Breeding Abstracts; Dairy Science Abstracts; Nutrition Abstracts & Reviews, Series B—Livestock Feeds & Feeding; Pig Science & Information; Poultry Abstracts.

Veterinary Science and Parasitic Diseases

Animal Disease Occurrence; Helminthological Abstracts, Series A—Human & Veterinary; Index Veterinarius; Zoological Abstracts; Review of Applied Entomology, Series B—Medical & Veterinary; Review of Medical & Veterinary Entomology; Small Animal Abstracts; Veterinary Bulletin.

Plant Science and Production

Food & Tropical Fibres Abstracts; Crop Physiology Abstracts; Grain & Bean Abstracts; Field Crop Abstracts; Herbage Abstracts; Horticultural Abstracts; Irrigation & Drainage Abstracts; Lentil Abstracts; Maize Abstracts; Ornamental Horticulture; Plant Breeding Abstracts; Plant Growth Regulator Abstracts; Potato Abstracts; Rice Abstracts; Seed Abstracts; Soils & Fertilizers; Sorghum & Millets Abstracts; Soyabean Abstracts; Tropical Oil Crops Abstracts; Wheat, Barley & Triticale Abstracts.

Forestry

Forest Abstracts; Forestry Abstracts; Forest Products Abstracts; Forestry Abstracts.

Plant Protection

Control News & Information; Helminthological Abstracts, Series B—Plant Nematology; Review of Applied Entomology, Series A—Agricultural; Review of Plant Pathology; Weed Abstracts.

Rural Economics, Development and Sociology

Adventure, Recreation & Tourism Abstracts; Rural Development Abstracts; Rural Extension, Education & Training Abstracts; World Agricultural Economics & Rural Sociology Abstracts.

Structures and Buildings

Agricultural Engineering Abstracts.

Human Nutrition

Nutrition Abstracts & Reviews Series A—Human & Experimental.

Biotechnology/Biodeterioration

Biotech News & Information; Biodeterioration Abstracts.

Also published is a new series of current awareness publications (CAB Prompts) on specific crops. Subject indexes are not provided. Titles in the series so far are: *Groundnuts and Chickpeas/Pigeonpeas.*

Many retrospective compilations of abstracts (Annotated Bibliographies) on various topics are available on demand.

SDI Service

SDI (Selective Dissemination of Information) is a regular current awareness service based on the most recent input to the database. Subscribers decide their own search profile and receive search results at intervals of their own choice, either as computer printout or on floppy discs suitable for most microcomputers. Airmail ensures fast delivery.

CAB Alerts

This is a special SDI service providing subscribers each month with the search results from standard profiles chosen by CABI. Numerous titles are available and the list is regularly updated to reflect new subject interests. Output is available on computer printout posted by airmail.

MACHINE-READABLE PRODUCTS AND SERVICES

Online Access

The machine-readable database, known as CAB ABSTRACTS, is publicly accessible online through DIALOG Information Services (USA), BRS Information Technologies (USA), ESA-IRS (Italy), DIMDI (GFR), JICST (Japan), CAN-OLE (Canada) and Tsukuba Daigaku (Japan). The whole database back to 1973 contains over 2 million records. Search aids include the CAB ABSTRACTS Online Manual, the CAB Thesaurus (1988 Edition) and the CAB International Serials Checklist (1988).

Magnetic tapes

Organizations with access to mini or mainframe computers may lease all or part of CAB ABSTRACTS on magnetic tape. Update tapes are issued monthly, and retrospective tapes as required.

OTHER PRODUCTS AND SERVICES

Document Delivery Service

Photocopies of originals of most articles included in the database are available from CABI Library Services, Silwood Park, Ascot, UK. Documents may also be ordered online via DIALOG's DIALORDER or ESA/IRS's PRIMORDIAL.

Books and serial publications

CABI publishes authoritative reference books, directories and serial publications, the latter including *Bulletin of Entomological Research*, *Index of Current Research on Pests*, *Distribution Maps of Pests*, *Distribution Maps of Plant Diseases*, *Bibliography of Systematic Mycology*, *Descriptions of Pathogenic Fungi & Bacteria*, *Index of Fungi*, and *Systema Ascomycetum*. CABI is a co-sponsor of the International Food Information Service which publishes *Food Science & Technology Abstracts*.

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CAB International (CABI) is a not-for-profit, intergovernmental organization registered with the United Nations. It is owned and administered by its member governments; these currently number 28, but membership is open to all governments who wish to participate. Established in 1928, the organization provides information, scientific, and development services for agriculture and allied disciplines throughout the world.

Information Services

The main task of the Information Services, located at the CAB International Centre (CABIC) at Wallingford, is the creation of a bibliographic database of research on agriculture, forestry and allied disciplines, including social sciences and aspects of human medicine. Abstract journals derived from the database, and online access to it, provide a unique source of information for research scientists, development planners, educators and students. Subsidiary but growing tasks are the publication of primary journals and reference works, and training information professionals in developing countries.

The Accessions Unit acquires the relevant scientific and technical literature for abstracting by almost 100 scientists/linguists in the following 11 Bureaux:

- Agricultural Economics
- Animal Breeding & Genetics
- Animal Health
- Dairy Science & Technology
- Nutrition
- Pastures & Field Crops
- Crop Protection
- Horticulture & Plantation Crops
- Plant Breeding & Genetics
- Soils
- Forestry

Further material is acquired and processed by collaborating or contracted organizations. Other staff coordinate work on specialized directories and databanks, and commission new books and primary journals. The Publications Unit is responsible for printing the journals and books, and the Marketing & Sales Division promotes and sells Information Services products and services worldwide (see inside back cover for details).

Scientific Services

CABI's Scientific Services consist of four Institutes and two support services:

CAB International Institute of Entomology (CIE), Director Dr K.M. Harris, located at 56 Queen's Gate, London, and in the British Museum, Natural History.

CAB International Mycological Institute (CMI), Director Professor D.L. Hawksworth, located at Ferry Lane, Kew, London, adjacent to the Royal Botanic Gardens.

CAB International Institute of Parasitology (CIP), Director Dr R. Muller, located at Winches Farm, St. Albans, the field station of the London School of Hygiene and Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research, implement projects, and provide training in their fields of expertise.

CAB International Institute of Biological Control (CIBC), Director Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training, and participates in integrated pest management programmes.

Development Services (CDS), Head Mr D. Heydon, integrate the broad range of CABI expertise to provide advice and assistance with agricultural problems, particularly those related to pest management and information services.

Library Services, Manager Mr C.J. Hamilton, have their headquarters with CIBC at Silwood Park, where the main Library is held, with additional literature collections at CMI, CIP, CDS and CABIC. Library Services operate a Document Delivery Service.

Systems

The Systems Division provides computing resources and services to all parts of CABI. It maintains a central computing facility with telecommunications access to seven remote sites, including the four CABI Institutes. CABIC is served by a modern Local Area Network which provides access to the computers, and to advanced office automation facilities. The main computers are DEC VAX systems and the principal software systems are BASIS for data management and PAGER for typesetting and information retrieval.

The staff of 20 includes database production personnel, systems analysts, programmers and computer operators. The principal systems are for the production of the CABI bibliographic database and associated functions, plus accessions control, subscription management and electronic publishing.